AMENDMENTS TO THE CLAIMS

1. (Currently amended) A method for supplying power to an asynchronous calculation element of an integrated circuit, comprising:

randomly distributing, in a predetermined time window, an instantaneous supply power [[of]] to the asynchronous calculation element, a total power in the predetermined time window being predetermined.

2. (Original) The method of claim 1, wherein the total power provided to the calculation element in the time window is determined according to a maximum possible power consumption of the calculation element.

3. (Currently amended) ~~A circuit~~ An apparatus for supplying power to at least one asynchronous calculation element of an integrated circuit, the apparatus comprising:

a variable supply element configured to randomly distribute in a predetermined time window an instantaneous energy provided to the asynchronous calculation element, a total power in the predetermined time window being predetermined.

4. (Currently amended) The ~~circuit~~ apparatus of claim 3, wherein the variable supply element is controlled by a pseudo-random generator.

5. (Currently amended) ~~A method comprising~~ The method of claim 1, wherein randomly distributing comprises:

supplying the instantaneous power randomly to [[an]] the asynchronous ~~processing~~ element so as to mask data being processed by the asynchronous ~~processing~~ element without adding to a power consumption of the asynchronous ~~processing~~ element.

6. (Currently amended) The method of claim 5, wherein [[the]] supplying the instantaneous power randomly includes supplying the instantaneous power based on random numbers generated by a pseudo-random number generator.

7. (Currently amended) The method of claim 5, wherein supplying the instantaneous power randomly includes supplying the instantaneous power based on constraints comprising at least one of a minimum power necessary for the asynchronous ~~processing~~ element to maintain a current state, a maximum possible power required by the asynchronous ~~processing~~ element to complete calculations, and a length of time for supplying the instantaneous power.

8. (Currently amended) ~~An~~ The apparatus ~~comprising:a controller~~ of claim 3, wherein the variable supply element is configured to supply ~~power~~ ~~the instantaneous energy randomly~~ to [[an]] the asynchronous ~~processing~~ element so as to mask data being processed by the asynchronous ~~processing~~ element without adding to a power consumption of the asynchronous ~~processing~~ element.

9. (Currently amended) The apparatus of claim 8, wherein the ~~controller~~ variable supply element supplies the ~~power~~ instantaneous energy based on constraints comprising at least one of a minimum power necessary for the asynchronous ~~processing~~ element to maintain a current state, a maximum possible power required by the asynchronous ~~processing~~ element to complete calculations, and a length of time for supplying the ~~power~~ instantaneous energy.

10. (Currently amended) The apparatus of claim 8, wherein the asynchronous ~~processing~~ element comprises a plurality of distinct asynchronous ~~processing~~ elements and wherein the ~~power~~ instantaneous energy supplied to said elements may be supplied separately from one another or together by means of a same controller.

11. (Currently amended) The apparatus of claim 10, wherein if the asynchronous ~~processing~~ elements are supplied separately with the ~~power~~ instantaneous energy, the ~~controller~~ variable supply element comprises a plurality of distinct ~~controllers~~ variable supply elements each driving one asynchronous ~~processing~~ element of the plurality of distinct asynchronous ~~processing~~ elements.